

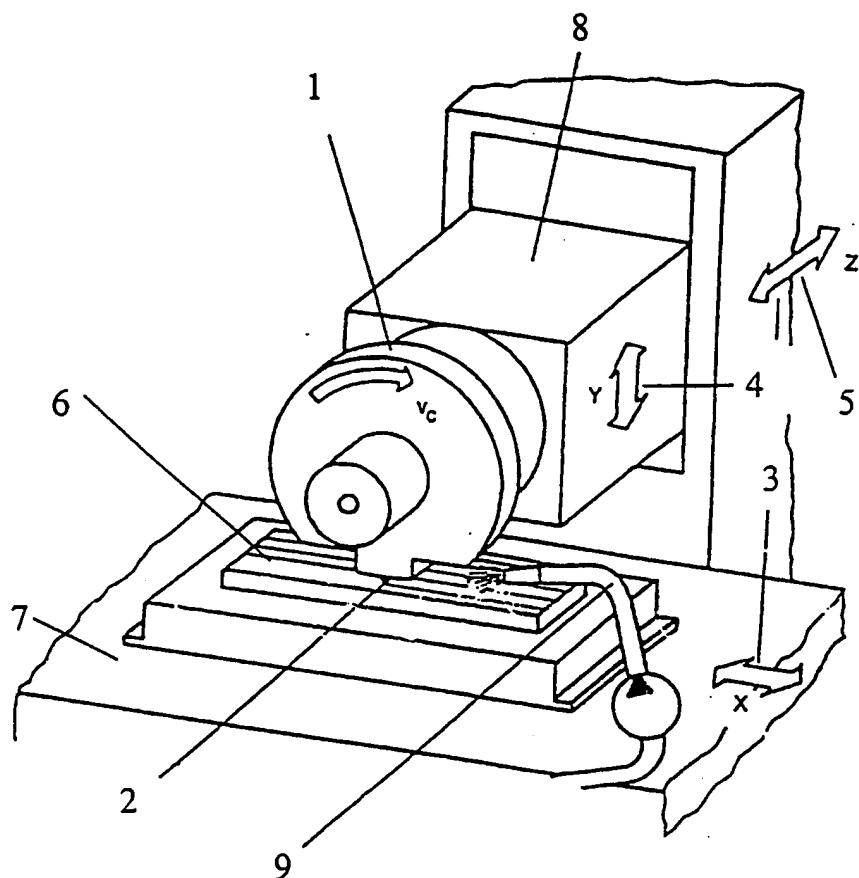
Abbildungen

Abb. 1: Prinzipieller Aufbau des Prüfstandes zum Einkornritzen

10/088849

WO 01/21547

PCT/EP00/09230

2 / 3

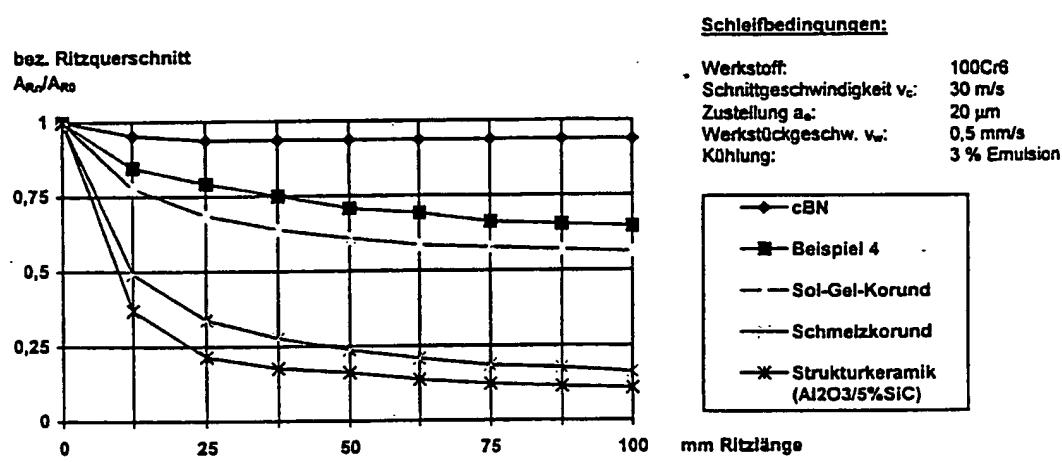


Abb. 2: Verschleißkurven von Al₂O₃/SiC-Nanokompositen im Vergleich zu einigen typischen Schleifkörnungen

10088849 .071802

10/088849

1 / 3

Illustrations

[see original drawing]

III. 1: Elementary diagram of the test stand for one-grain scratching

10088849

2 / 3

rel. scratch cross section

A_{Rd}/A_{Ro}

[see original]

Grinding Conditions:

Material:	100Cr6
Cutting speed v_c :	30m/s
Feed motion a_x :	20 μm
Work piece speed v_w :	0.5 mm/s
Coolant:	3% emulsion

- cBN
- Example 4
- sol/gel corundum
- melt corundum
- structure ceramics
($\text{Al}_2\text{O}_3/5\%\text{SiC}$)

mm scratch length

III. 2: Abrasion curves of $\text{Al}_2\text{O}_3/\text{SiC}$ nanocomposites as compared with some typical abrasive grains

10088849 .071802



10/088849

3 / 3

[photograph]

Figure 3

[photograph]

Figure 4